ADDITIONAL NOTES ON VERONICA FILIFORMIS

By E. B. BANGERTER and D. H. KENT

Since the publication of our earlier papers on *Veronica filiformis* (Bangerter & Kent, 1957 and 1962) additional data have been accumulated. These are now presented to bring up to date the known distribution of the species.

FLOWERING PERIOD AND GROWTH

Salisbury (1962) points out that plants frequently spread with a radial increment of over 20 cm. in a season, this confirms our earlier findings (Bangerter & Kent, 1962), he further records that each of the stolons produced will frequently bear eleven or more potentially rooting nodes.

EUROPEAN RECORDS

BELGIUM. Sternon & Goffort (1955), discuss the propagation and spread of the species in that country.

DENMARK. Østergaard (1960) comments upon the cultivation of *V. filiformis* in Denmark, while Pedersen (1963) gives an account of its history and spread as an adventive. It is mainly a pest of garden lawns and is rare in pastures. The latter account is illustrated by a map showing the distribution of the species in the country.

ESTONIA. Echwald (1960) refers to the introduction and spread of *V. filiformis* in Estonia and claims that it is becoming a serious pest of grasslands.

SWITZERLAND. Becherer (1962) gives further records for Switzerland.

AMERICAN RECORDS

UNITED STATES. Eyerdam (1955) reveals that in addition to records from the north-eastern United States and adjacent Canada, the species occurs in the Pacific North-west in open woodland near Seattle, King County. Dr. Lloyd Shinners informs us that a specimen gathered in 1949 from the latter locality is preserved in the herbarium of the Southern Methodist University, Dallas, Texas.

V. FILIFORMIS AS A BRITISH ADVENTIVE

Salisbury (1962), compares the spread of *Veronica persica* and *V. filiformis* in Britain, and expresses the view that most, if not all, of the plants of the latter species in this country originated

from the same spruce. We have continued to find very little evidence of fruiting, and have received only one more record "with capsule".

The known British and Irish vice-control distribution of *V. filiformis* as an established escape should now read: 1-90, 92-105, 107-109, 111 and 112. H. 1-5, 7-13, 15, 16, 20, 21, 25-28, 30, 33-35, 37-40. S. The plant is thus now known from 109 of the 112 vice-counties in Great Britain, as well as the Channel Islands, and from 28 of the 40 Irish vice-counties.

BRITISH AND IRISH RECORDS

The following list gives records additional to those cited by Bangerter & Kent (1957 & 1962), including details from herbarium specimens examined. The abbreviations used for herbaria are those given by Kent, Bangerter & Lousley (1958). An asterisk prefixing a vice-county number indicates a new vice-county record.

CHANNEL ISLANDS

GUERNSEY: car park, Manor Hotel, Petit Bot, 1962, *Miss M. McCallum Webster* (BM, K).

SARK: Seigneurie Lane, 1936, *L. Lyle* (BM), det *E. B. Bangerter*, 1963.

V.-c. 1. W. CORNWALL: Roadside verge, Falmouth, 1964, *Mrs. J. Richards.*

3. S. DEVON: Sidcliffe, Sidmouth, c. 1950, *D. G. Satow.* Rampant garden weed, Hartley, Plymouth, 1964, *D. G. Satow* (BM). Seaton, *M. A. Fixsen*: Branscombe Churchyard (Wilkinson, 1964),

4. N. DEVON: garden weed, Clawton Vicarage, near Holsworthy, 1944, *Rev. H. Harvey* (BM). Luppitt, *I. Jefferies* (Wilkinson, 1964).

7. N. WILTS: Bremhill Churchyard, 1962, *T. G. Collett. River banks*, Manton, *D. C. C. Hughes* (Grose, 1962). Monckton Park, *J. D. Grose* (Grose, 1964).

8. S. WILTS: deserted garden, Imber (Grose, 1962). Roadside between Dinton and Fovant, *B. M. Stratton* (Grose, 1964).

9. DORSET: garden weed, Lewcombe Manor, East Chelboro', 1963; Lewcombe Churchyard, 1963, *R. S. R. Fitter.*

10. ISLE OF WIGHT: spreading in many areas, 1962 (White, 1964).

11. S. HANTS: garden weed, Furzey, Minstead, 1963, *R. S. R. Fitter.*

14. E. SUSSEX: carpeting bank by stream running into the Ouse on Avin's Farm, near Ardingley Station, 1953; still there, 1960, but apparently much diminished; near the Ouse on eastern outskirts of Rivers Wood, opposite Ardingley College, 1960; verges in Horsted Keynes village, and elsewhere in the parish, c. 1956; under trees Church Lane, Dunehill, 1960; roadside verge, Kingscote, 1960; verges at Scaynes Hill, 1961; bank of Ouse above Freshfield Bridges, 1961; weed of lawns, Newick, 1960; roadside verge, west of Hassocks Station, 1960, *R. C. Palmer.*

15. E. KENT: road verges near houses, Appledore, 1962, M. G. *Collett, D. H. Kent & B. Wurzell.* Garden weed, St. Stephen's, Canterbury, 1962, *Dr. A. G. Spooner.*

16. W. KENT: pest of lawns and garden weed, Orpington and Badgers Mount, 1961, *Dr. A. G. Spooner*. Bexley, 1965, *Mrs. L. M. P. Small* (BM).

17. SURREY: garden weed, Cheam, 1957, *Dr. A. G. Spooner*. Top of the banks of Tanner's Brook, south of Dorking, in a lush pasture, far from houses, 1962, *Miss B. M. C. Morgan*. Holmwood Common, 1962, *Miss B. M. C. Morgan & J. E. Lousley*. Nutfield (with capsules), 1960, *Miss B. A. Kneller*. Ewhurst Churchyard, abundant, 1963; in grass, Southcote, Hindhead, 1964, *D McClintock*. Becoming well naturalised in the Haslemere district (Howard, 1962). In herbaceous border, grounds at Quatermaine School, Haslemere, 1963, *A. C. Jermy* (BM). Old churchyard, Woldingham, 1962, *R. Clarke*. Pest of lawn, Carshalton, 1965, *Miss M. E. Kennedy*.

19. N. ESSEX: pest of lawn, Harlow, 1949, *R. Doggett*. Garden weed, Little Hallingbury, 1962, *J. L. Fielding*. Weed of lawns and grassland, North End, Great Waltham, 1962; weed of lawns, Barnston, 1962, *J. R. Ironside Wood*.

20. HERTS: Brunswick Park, east of Friern Barnet, *J. G. Dony*. Garden weed, Harpenden, 1961, *R. C. Palmer*. Waste ground, Arnos Grove, 1962, *B. Wurzell*. Garden weed, Sawbridgeworth, 1962, *Mrs. L. M. P. Small*. Meadow near houses, Chorley Wood, 1963, *J. G. Dony, Mrs. C. M. Dony & D. H. Kent*. Garden weed, Chorley Wood, 1965, *Miss D. M. Hillcoat* (BM).

21. MIDDLESEX: Marble Hill Park, Twickenham, 1965, *Mrs. L. M. P. Small*: Marble Hill, Twickenham, under trees near entrance to Orleans Road, 1965, *Miss M. B. Gerrans* (BM). Pinner Churchyard, 1965; Harmondsworth Churchyard, 1965, *D. H. Kent*.

22. BERKS: roadside verge, Streatley, c. 1958, *R. C. Palmer*. Christchurch Meadow, Caversham, *Mrs. A. M. Simmonds, Reading Nat.*, **17**, 42. Ashampstead Churchyard, *Miss Nelmes, Reading Nat.*, **15**, 24. River meadow, Medmenham; Thames-side Promenade, Reading, forming ground flora with grass, *Mrs. A. M. Simmonds, Reading Nat.*, **16**, 25. Tangier Island, Eton, spreading as a garden weed, *C. W. Willink* (Hyde, 1962). In mown grass beside pond near Bishop's Gate, Windsor Great Park, 1965, *Miss M. B. Gerrans* (BM).

23. OXFORD: grassy bank, Piddington, near Bicester, 1963, *P. G. Sheasby & J. D. Sheasby*. Bank at top of Church Lane, Iffley, 1960; Over Worton, near Deddington, 1960; weed in gardens of Chastleton House, Chastleton Village, 1961; roadside verge, Idbury, near Kingham, 1962, *R. C. Palmer*.

24. BUCKS: roadside verge, Keep Hill, High Wycombe, 1952; Tylers Green, 1958; garden weed, Bassetsbury, 1956-58, *Dr. A. G. Spooner*. Hughenden and Wycombe Marsh, *Mrs. B. Marcan* (Ambrose, 1964). Small colony in grass verge of towpath bank of river Thames near railway bridge opposite Fishery Estate, Maidenhead, 1965, *G. A. Matthews* (BM).

27. E. NORFOLK: garden weed, Horning, 1951, *Dr. A. G. Spooner*.

29. CAMBRIDGE: Snailswell, 'a whole field blue with it', 1963, *Miss M. McCallum Webster* (BM).

*32. NORTHANTS: pest of lawns, Oundle, Peterborough, c. 1957→, I. *Hepburn*. Lawns and grounds of Delapre Abbey, Hardingstone, abundant, 1962, *J. L. Gilbert*. Road verge Blakesley, 1962, *T. G. Collett*. Grassy banks, Oundle, 1963, *J. S. Rees*. Cottesbrooke, Kelmarsh, 1963 (Payne, 1964). Canal bank, Stoke Brueone, 1964. *Kettering & District Nat. Soc. Field Meeting*, comm. *Mrs. G. M. Gent*.

33. E. GLOUCESTER: Overbury Churchyard, 1947, *Cotteswold Naturalists' Field Club Meeting;* Sheepscombe; Withington Woods, 1953, *R. J. M. Skarrat*; Packham Woods; Hailes Woods, *Cotteswold Naturalists' Field Club Meetings;* Stancombe Lane, Winchcombe, *Cdr. R. Dudley-Smith;* near Chipping Campden, 1962, *Miss Caddick*, all comm. *Miss D. E. de Vesian*. Garden weed, Didbrook, very abundant, 1961, *Miss D. E. de Vesian*. Quarry near Painswick Beacon, 1964, *Mrs. B. H. S. Russell*. Roadside verge, Westington, 1962, *'H.M.C.'* (de Vesian, 1964).

34. W. GLOUCESTER: near Hawbridge, west side of river Severn, 1955, *Miss D. E. de Vesian*.

35. MONMOUTH: pest of lawns, Ridgeway, Newport, 1952, *Dr. A. G. Spooner*.

38. WARWICK: pest of lawns, Kenilworth Castle, 1963, *T. G. Collett*.

45. PEMBROKE: Llanycefn; St. Ishmaels, 1964; roadside verge, Llawhaden, 1965, *T. A. W. Davis* (BM). Derelict garden, Penty Park, Clarbeston Road, 1957; Llwyngwair Nevern, long established, 1964; garden weed, Hean Castle, Saundersfoot, 1965, *T. A. W. Davis*.

48. MERIONETH: Glyndyfrdwy, *Miss V. Gordon;* Corwen area, *R. E. Collins* (Benoit & Richards, 1963). Roadside banks, Penhelyg, 1962-63 (Teague, 1964).

52. ANGLESEY: Red Wharf Bay, 1931, *A. E. Bradley* (BM), det *E. B. Bangerter*, 1963.

53. S. LINCOLN: Wigtoft Churchyard, well established, 1963, *C. J. Allerton*, comm. *Miss E. J. Gibbons*.

54. N. LINCOLN: field between Louth and Stewton, 1935, *Miss Noel* (BM).

55. (RUTLAND): weed in lawn, Oakham Castle, 1962, *J. R. Ironside Wood*.

56. NOTTINGHAM: garden weed, Wellbeck and Langar Hall (Howitt & Howitt, 1963).

58. CHESTER: naturalised in a field, Rock Ferry, 1947, *J. A. Crabbe* (BM).

59. S. LANCASTER: in grass, Holden Clough, near Clitheroe, 1964, *D. McClintock*.

64. MID-W. YORK: roadside near Grassington, and near Feizor village, *Mrs. F. Houseman, The Nat.*, **1962**, 26. Grass verge, College Barn, Northgate Lane, Linton, 1963, *G. A. Shaw;* lawn at Bradsey (Nelson, et al, 1963). North bank of Wharfe, opposite Manor Park, Barley in Wharfedale, *F. Houseman, The Nat.*, **1965**, 27.

65. N.-W. YORK: roadside between Sedbergh and Dent, *Miss B. A. Kneller*. Near Marsett, Wensleydale; roadside near Hartforth House, Gilling West, Richmond, *Mrs. J. Holloway*, *The Nat.*, **1964**, 30.

67. NORTHUMBERLAND, S.: verge to road by cottage, Kilbryde, Corbridge, 1965, *Miss M. McCallum Webster* (BM).

69b. N. LANCASTER: grassy verge outside cottage, Skelworth, 1962, *J. R. Ironside Wood*. Pest of lawn, Wray Castle, 1962, *P. J. Taylor & P. M. Dennis*, comm. *J. R. Ironside Wood*.

71. ISLE OF MAN: abundant in churchyard, Lezayre, two miles southwest of Ramsey, 1960, *Miss M. B. Bing* (BM), comm. *D. E. Allen*: Jurby, 1962, *J. E. Lousley* (BM).

76. RENFREW: Lochside station, 1964, *D. McClintock*.

77. LANARK: Stonehouse, 1965, *S. W. Birnage* (BM).

82. HADDINGTON: railway siding, Saltown, 1962; edge of track to sea, Greencraig House, Craigielaw Point, 1963, *Miss M. McCallum Webster* (BM).

83. EDINBURGH: grassy bank near Juniper Green, *E. P. Beattie*.

84. LINLITHGOW: grassy bank near Bathgate, *E. P. Beattie*.

85. FIFE: track to sea, east of Hopetown House, in grass, 1965, *Miss M. McCallum Webster* (BM).

87. W. PERTH: rough ground by meadows, Callander, 1965, *Miss M. McCallum Webster* (BM).

88. MID PERTH: waste ground, Station Road, Methven, 1965, *Miss M. McCallum Webster* (BM).

89. E. PERTH: Pitlochry, 1965, *T. G. Collett*. River shingle, Killiecrankie, 1965, *Miss M. McCallum Webster* (BM).

94. BANFF: distillery yard by a stream, Dufftown, 1963; pest of lawn, Kilowen, Macduff, 1964, *Miss M. McCallum Webster* (BM).

95. ELGIN: garden weed, Milton Brodie, 1965, *Miss M. McCallum Webster* (BM).

96. EASTERNESS: east bank of river Ness, near houses, 1961, *Miss M. McCallum Webster* (BM).

*102. S. EBUDES: kitchen garden path, Ardlussa House, Jura, 1961 (McClintock, 1962).

104. N. EBUDES: verge to road, Broadford, Skye, one small patch, 1962; not apparently in nearby gardens, *Miss M. McCallum Webster* (BM).

108. W. SUTHERLAND: roadside, Melness, 1962, *C. R. Lancaster*.

112. ZETLAND: grassland near houses, North Roe, 1961, *W. Scott & J. R. Ironside Wood*. By roadside near Vidlin School, Lunnasting, *W. Scott*, comm. *R. C. Palmer*. Garden weed, Lerwick, *R. C. Palmer*.

H.1. S. KERRY: dunes at Derrynane, 1965, *Miss M. McCallum Webster* (BM).

H.4. MID CORK: weed in Dr. Scully's garden, Rushbrook, 1933 (DBN).

H.7. S. TIPPERARY: bank near railway bridge, near Ballydiehid House, Cahir, 1965, *Miss M. McCallum Webster* (BM).

*H.15. S.-E. GALWAY: grass by stream, Kilbormer, 1962, *N. D. Simpson & C. West*.

H.21. DUBLIN: in garden, covering lawn, Clontarf, 1962, *A. C. Jermy* (BM).

*H.25. ROSCOMMON: rubbish-tip at crossroads, Roscommon, 1962, *Miss M. McCallum Webster* (BM).

H.27. W. MAYO: wood between road and sea, Mulrany, 1962, *Miss M. McCallum Webster* (BM).

H.30. CAVAN: grass plot, Farrinseer, 1938, *Faris* (DBN).

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